Study	Location (sample size)	Mean SO₂ (ppb)	Exposure Assessment	Selected Effect Estimates ^a (95% CI)
Fertility/Reproduct	ion			
<u>Legro et al. (2010)</u>	Northeastern United States (n = 7,403 women)	59	Spatially kriged from monitors	Live birth Medication start to oocyte retrieval: 1.00 (0.98, 1.02) Oocyte retrieval to embryo transfer: 0.99 (0.98, 1.00) Embryo transfer to pregnancy test (~14 days): 0.99 (0.98, 1.00) Embryo transfer to birth: 0.99 (0.95, 1.04)
<u>Slama et al. (2013)</u>	Teplice, Czech Republic (n = 1,916)	NR	Single monitor	Fecundability ratio 60 days before the end of 1st mo of unprotected intercourse 0.93 (0.82, 1.05) PM _{2.5} adjusted: 1.00 (0.88, 1.15) NO ₂ adjusted: 0.98 (0.85, 1.11)
Pregnancy				
<u>Lee et al. (2011)</u>	Alleghany County, PA, U.S. (n = 1,696)	8.4	Interpolated concentrations at 13.4-m ² grid centroid from space-time ordinary kriging based on monitoring data	C-Reactive protein (% change) NR
{Lee, 2012, 1258305}	Alleghany County, PA, U.S. (n = 1,684)	8.6	Interpolated concentrations at 13.4-m ² grid centroid from space-time ordinary kriging based on monitoring data	Blood pressure (% change) NR

Table 5S-11 Summary of epidemiologic studies of exposure to sulfur dioxide and fertility/pregnancy effects.

Table 5S-11 (Continued): Summary of epidemiologic studies of exposure to sulfur dioxide and fertility/pregnancy effects

Study	Location (sample size)	Mean SO₂ (ppb)	Exposure Assessment	Selected Effect Estimates ^a (95% CI)
<u>Xu et al. (2014)</u>	Florida, U.S.	4.69-8.72	Nearest monitor, within 20 km	Hypertensive disorders of pregnancy
				T1: 1.19 (1.04, 1.36)
				T2: 1.00 (0.85, 1.15)
				EP: 1.27 (1.02, 1.55)
<u>Zhou et al. (2014)</u>	Chongquig, China	12-39	Monitor	Semen volume (mL) 0.30 (−0.03, 2.55)
				Sperm concentration (10 ⁶ /mL) 0.70 (0.03, 1.56)
				Progressive motility (PR⁵, %) −0.98 (−1.88, 0.98)
				Total motility (PR + NP ⁵, %) −0.78 (−1.50, 0.73)
				Normal morphology (%) −9.45 (−22.88, −0.20)
				Motile sperm VCL ^ь (µm/s) −3.03 (−22.55, 17.03)
				Motile sperm VSL ^b (µm/s) −3.23 (−6.25, 0.45)
				Motile sperm LIN ^b (%) −1.18 (−2.70, 2.38)
<u>Robledo et al.</u> (2015)	United States	3.34-3.36	Modeled, CMAQ	Gestational diabetes (OR)
			Delivery hospital referral	Preconception: 1.08 (1.02, 1.14)
			region	T1: 1.06 (1.00, 1.12)

 SO_2 = sulfur dioxide; CI = confidence interval; mo = month; PM = particulate matter; NO_2 = nitrite; PA = Pennsylvania; m = meter; n = sample size; U.S. = United States of America; km = kilometer; T1 = first trimester; T2 = second trimester; T3 = third trimester; EP = entire pregnancy; NR = no quantitative results reported; CMAQ = community multiscale air quality; OR = odds ratio PR = progressive; NP = non-progressive; VCL = curvilinear velocity; VSL = straight line velocity; LIN = motile sperm linearity.

^aRisk per 5-ppb change in SO₂ unless otherwise noted.